AUTODOC CLUB

How to change engine oil and filter on **BMW E82** – replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:
BMW X5 (E70) xDrive 35 i, BMW 5 Touring (E61) 525i 2.5, BMW 7 (E65, E66, E67) 730i / Li 3.0, BMW 6 Coupe (E63) 630i 3.0, BMW 6 Convertible (E64) 630i 3.0, BMW 3 Saloon (E90) 325i 2.5, BMW 3 Saloon (E90) 330i 3.0, BMW 1 Hatchback (E81) 130i 3.0, BMW 3 Touring (E91) 325i 2.5, BMW 3 Touring (E91) 330i 3.0, BMW 5 Saloon (E60) 530i 3.0, BMW 5 Touring (E61) 530i 3.0, BMW 5 Saloon (E60) 523i 2.5, BMW 5 Touring (E61) 523i 2.5, BMW 5 Saloon (E60) 525i 2.5, (+ 73)

The steps may slightly vary depending on the car design.

REPLACEMENT: ENGINE OIL AND FILTER – BMW E82.
LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- All-purpose cleaning spray
- Oil filter cup socket 85-15F
- Drive socket # 19
- Ratchet wrench
- Torque wrench
- Tap wrench
- Flat Screwdriver
- Funnel
- Oil drain pan
- Fender cover

BUY TOOLS

Replacement: engine oil and filter – BMW E82. AUTODOC recommends:

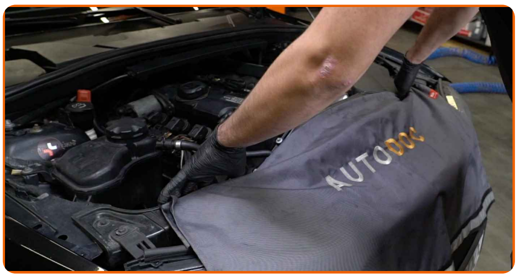
- Replace the oil filter every time when changing motor oil.
- Use only new O-rings during installation.
- Wear gloves to prevent contact with hot liquid.
- All work should be done with the engine stopped.

REPLACEMENT: ENGINE OIL AND FILTER – BMW E82. RECOMMENDED SEQUENCE OF STEPS:

1 Open the hood.



2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



3 Unscrew the oil filler plug.



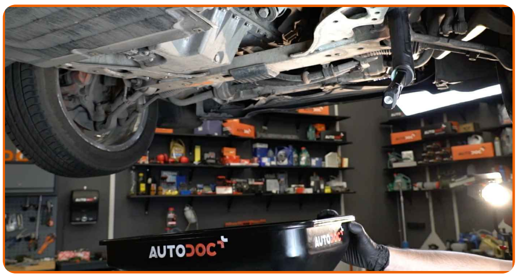
4 Lift the car using a jack or place it over an inspection pit.



Replacement: engine oil and filter – BMW E82. Tip from AUTODOC:

- The vehicle must be on even keel, and if it is at an angle, the drain plug must be at the lowest point.

5 Put a waste oil container with at least 7 l capacity under the drainage hole.



6 Clean the area of the oil pan drainage hole. Use a wire brush. Use all-purpose cleaning spray.



7 Unscrew the drain plug. Use a drive socket #19. Use a tap wrench.



8 Drain the used oil.



Replacement: engine oil and filter – BMW E82. Tip:

- Caution! The oil may be hot.

9 Clean the oil filter housing cap. Use all-purpose cleaning spray.



10 Prepare a container for the old oil filter.

11 Unscrew the filter housing cap together with the old filter element. Use the 85-15F socket. Use a ratchet wrench.



12 Put the old oil filter in the container.



Replacement: engine oil and filter – BMW E82. AUTODOC experts recommend:

- Move up the container. The oil starts to drain out of the drainage hole immediately after you have removed the oil filter.

13 Detach the oil filter from the filter cover.



14 Remove old o-rings from the oil filter cover. Use a flat screwdriver.



15 Clean the oil filter housing cap. Use all-purpose cleaning spray.



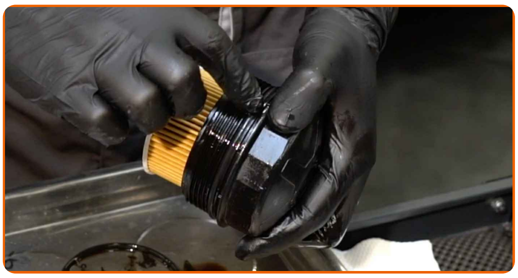
16 Install new O-rings and a new oil filter to their mounting seats on the filter cover.



Please note!

- Make sure to install the filter correctly. Don't mix up the sides of the part.

17 Lubricate the rubber seal of the new filter with a little amount of fresh oil.



18 Install a new oil filter housing cover and tighten it. Use the 85-15F socket. Use a torque wrench. Tighten it to 25 Nm torque.



Replacement: engine oil and filter – BMW E82. Tip:

- Wait until the oil has completely drained from the drainage hole.

19 Clean the area of the oil pan drainage hole.



20 Screw in the new drainage plug and tighten it. Use a drive socket #19. Use a torque wrench. Tighten it to 25 Nm torque.



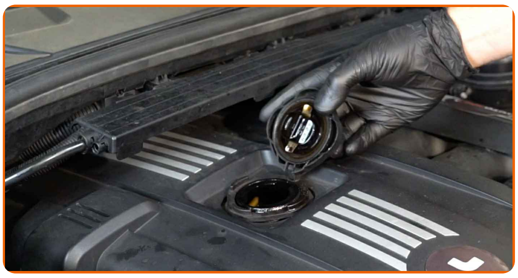
21 Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



22 Lower the car.



23 Remove the oil filler cap.



24 Insert the funnel.



25 Pour oil into the engine through the filler. Required amount of oil: 6.5 L.



Replacement: engine oil and filter – BMW E82. AUTODOC recommends:

- Use the oil recommended by the manufacturer.

26

Check the oil level using the dipstick. Top up oil if necessary.



Please note!

- The oil level should be between the Min and Max marks.

27

Install the oil filler cap.



28

Tighten the oil filler cap.



29

Run the engine for a few minutes. After the oil pressure warning light goes out, stop the engine.



30 Check the oil level 5 minutes after the stop of the engine operation using a dipstick and add oil if necessary.

Please note!

- The oil level should be between the Min and Max marks.
- Make sure that the oil filler cap is properly tightened.
- Check the threaded plug of the drainage hole and the oil filter seal for tightness. If necessary, carefully tighten them up.

31 Remove the fender protection cover.



32 Close the hood.



Replacement: engine oil and filter – BMW E82. Tip from AUTODOC experts:

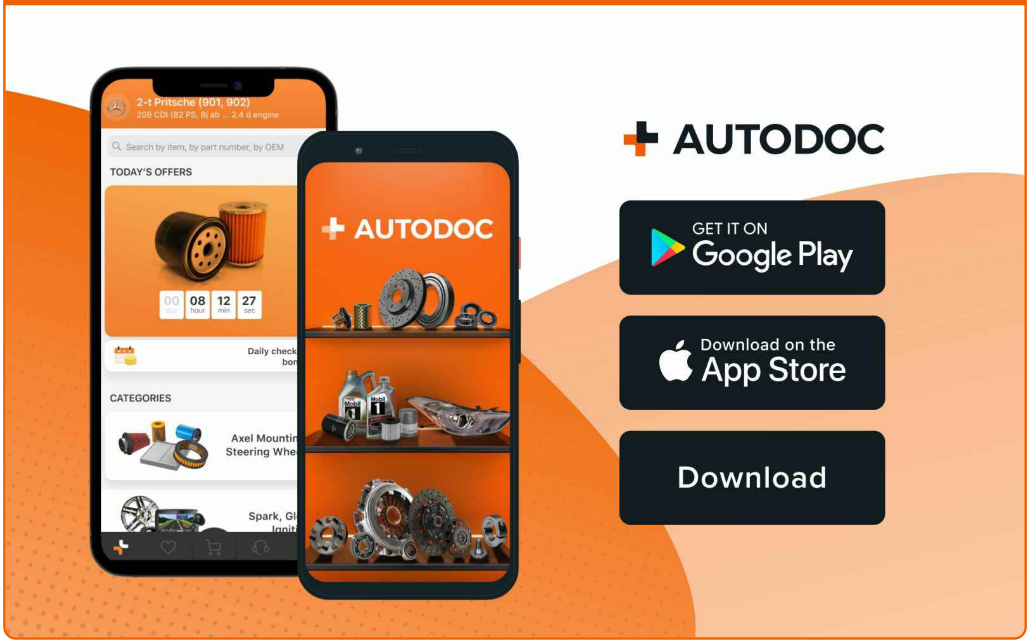
- Note that oil pressure warning light, which indicates insufficient pressure in the lubrication system, may be on for a longer time than usual. After a few seconds, the oil will fill all the channels, and the light will go out.
- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.

WELL DONE!

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